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APPLICATION NO.	FILING DATE	FIRST	NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/976;786	976,786 10/12/2001		chard K. Golasky	016295.0706(DC-03140)	2229
759	05/06/2004			EXAMI	NER
Paula D. Heyman				MCCARTHY, CHRISTOPHER S	
Baker Botts L.L	.P.				2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
One Shell Plaza		ART UNIT	PAPER NUMBER		
910 Louisiana				2113	
Houston, TX 77002-4995				DATE MAILED: 05/06/2004	. 3

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		09/976,786	GOLASKY ET AL.				
		Examiner	Art Unit				
		Christopher S. McCarthy	2113				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on 12 O	ctober 2001.					
2a)□	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)⊠	<ul> <li>4)  Claim(s) 1-22 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) 9-13 is/are allowed.</li> <li>6)  Claim(s) 1-6,8,14-16,18 and 21 is/are rejected.</li> <li>7)  Claim(s) 7,17,19 and 20 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Application Papers							
9) ☐ The specification is objected to by the Examiner.  10) ☑ The drawing(s) filed on 12 October 2001 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notice 3) Infor	at(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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#### DETAILED ACTION

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-6, 8, 14-16, 18, 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Black U.S. Patent 6,708,265.

As per claim 1, Black teaches a computer system, comprising a host operable to interface with a network (column 15, line 55 – column 16, line 12); a primary storage device operable to interface with the network (column 16, lines 19-21), the primary storage device including first and second logical units, the first logical unit assigned to store data generated by the host (column 20, line 50 – column 21, line 39); and an agent module operable to communicate with the host and the primary storage device (column 17, lines 1-8; column 31, lines 18-29), the agent module further operable to detect a failure at the first logical unit (column 17, line 66 – column 18, line 1; column 5, lines 35-43); locate backup data from the first logical unit on a backup storage device (column 17, lines 64-66; column 17, lines 25-29); transfer the backup data from the backup storage device to the second logical unit (column 17, line 66 – column 18, line 1; column 17, lines 25-29); and map the second logical unit to an address associated with the host

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in response to detecting the failure at the first logical unit (column 21, lines 30-39; column 22, lines 19-32).

As per claim 2, Black teaches the computer system of claim 1, wherein the primary storage device comprises a redundant array of independent disks (RAID) device (column 16, lines 57-60; column 5, lines 53-59).

As per claim 3, Black teaches the computer system of claim 1, wherein the detecting comprises receiving notification from the primary storage device of the failure at the first logical unit (column 16, lines 35-39; column 18, lines 23-39; column 17, line 66 – column 18, line 1; column 5, lines 35-43).

As per claim 4, Black teaches the computer system of claim 1, wherein the address comprises a world wide name (WWN) (column 9, lines 62-67; column 21, lines 40-48).

As per claim 5, Black teaches the computer system of claim 1, wherein the backup storage device comprises a tape drive (column 10, lines 25-29).

As per claim 6, Black teaches the computer system of claim 1, further comprising the agent module operable to configure the second logical unit in response to detecting the failure (column 21, line 64 – column 22, line 10; column 20, line 50 – column 21, line 12).

As per claim 8, Black teaches the computer system of claim 1, wherein the network comprises a fibre channel network (column 16, lines 19-24).

As per claim 14, Black teaches a method for providing automatic data restoration after a storage device failure, comprising of detecting a failure at a first logical unit operable to store data associated with a host, the host operable to couple to a network (column 16, lines 5-49); configuring a second logical unit in response to detecting the failure at the first logical unit, the

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first and second logical units located on a first storage device operable to couple to the network (column 20, line 50 – column 21, line 29); transferring backup data associated with the first logical unit from a second storage device to the second logical unit (column 17, lines 25-29); and mapping the second logical unit to an address associated with the host when the backup data transfer from the second storage device is complete (column 21, line 49 – column 22, line 32).

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As per claim 15, Black teaches the method of claim 14, further comprising: communicating the data between the host and the first logical unit via the network; and communicating the backup data between the first logical unit and the second storage device via the network (column 16, lines 5-44).

As per claim 16, Black teaches the method of claim 14, further comprising locating the backup data associated with the first logical unit on the second storage device, the backup data copied from the first logical unit to the second storage device prior to the failure (column 17, lines 25-29; column 18, lines 36-39; column 17, lines 64-66).

As per claim 18, Black teaches the method of claim 14, wherein the second storage device comprises a tape drive (column 17, lines 25-28).

As per claim 22, Black teaches the method of claim 14, further comprising communicating the data via a fibre channel network (column 16, lines 19-24).

## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Black in view of *Microsoft Computer Dictionary*.

As per claim 21, Black teaches the method of claim 14. While Black does teach wherein the SMAPP module does monitor the storage elements on the attached network (column 19, lines 1-65), Black does not explicitly teach the detecting comprising of receiving an SNMP message. *Microsoft Computer Dictionary* does teach detecting comprising of receiving an SNMP message (page 414). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the SNMP protocol, as defined in the *Microsoft Computer Dictionary*, to the monitoring process of Black. One of ordinary skill in the art would have been motivated to use the SNMP protocol, as defined in the *Microsoft Computer Dictionary*, to the monitoring process of Black because the utilization of SNMP, as defined by *Microsoft Computer Dictionary*, enables a host to monitor the connections and actions of the devices on the network the host is connected thereon, a need explicitly expressed in Black.

## Allowable Subject Matter

- 4. Claims 9-13 are allowed.
- 5. Claims 7, 17, 19, 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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### Reasons for Allowance

6. The following is an examiner's statement of reasons for allowance: When read as a whole, claim 9 is allowable with respect to the limitation wherein to instruct the application server to reboot after the second logical unit has been mapped to the application server.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Please see attached PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. McCarthy whose telephone number is (703)305-7599. The examiner can normally be reached on M-F, 8 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (703)305-9713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

csm April 29, 2004

ROBERT BEAUSOLIEL
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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